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THE SOUTHERNER, TERMS - PER ANNUM. paid within two months,

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AGRICULTURAL.

FYearly advertisements by contract



"Agriculture is the chief undation of a nation's power, it not only furnishes man outh food and clothing, but also and commerce."

[From De Bow's Review.]

Edmund Ruffin, of Va.,

AGRICULTURIST,

powerful nervous system.

with history, fiction or general literature. me. In the sixteenth year of his age

much fondness and a decided talent. him with distinguished credit.

institution for continued neglect to

the duties of his class. His father being now dead, he was

left by an easy guardian to the indulce of his own tastes and disposition. returned home to a kind step-mother, Shout any definite object in view, or the first muster at which he was en- | Mantuan farmer. led, having reached the military age year he was married.

reached its lowest point of depression. every effort of a similar kind on soils of Inder the exhausting system of culti- a similar character. ration, which had prevailed from the

EO. HOWARD, Jr., Editor & Proprietor depletion, and has little blood left to protection of the land supposed to be acid for the re- and litter has been removed;—I admit yield to the Sangrado practitioner, such making the vegetable serve as manure. verse qualities. Shells or lime would that the land for the time being will be was the tide-water section of Virginia. Another, and secondary idea, was to necessarily combine with and destroy all injured, but, if kept in forest, it will thus situated, society was rapidly deling. Mr. Ruffin became an ardent ad- present universally, and acting as a pois- if any benefited by this application, but, I had heard much, and believe me when clining. It was well said by Mr. Ruf- mirer of "Arator," and adopted his o- on to cultivated plants, it seemed plain fortunately, experience an practical ex- I say, a part only had been told me. I fin, in an address to the people of his pinions and precepts. He had not yet enough why the shelly lands were periments have taught me, as well as was not only agreeably surprised at the county, that at that time-

enjoyment than of providing for future in some cases' greatly injurious."

debility nor the delicacy of his The county of Prince George differed of the flood. It is not much to say, that bonate of line. The land was planted bour to Mr. W. has improved his farm neture has prevented the most untir- but little from all the lower part of Vir- 100 feet in depth of putrescent matter in corn, and when the plants were only in like manner. industry in whatever interested him, ginia. There seemed no refuge from had been piled on its surface, and had only a few inches high their superiority. In the spring of 1850 I laid off 20 athe exhibition of an energy, physi- poverty but emigration. Many of the rotted there in the lapse of years, and over the adjacent corn was manifest. cres of land, (which was marled in 1839 and intellectual, which would seem aristocratic mansions of this hospitable yet the soil had remained still poor. In This continued and increased as the crop and '40, and which yielded in 1847 have required a strong frame, and a and generous population were now aban- this exhibition of Nature herself, was advanced, and when the corn was gath- three barrels of corn per acre, and five doned in silence and ruin, and the for- found an aswer to Col. Taylor's theory. | cred it was found that the increase was bushels of wheat per acre, in 1848,) in His father, a gentleman of fortune, mer inmates, with the remains of their An application of vegetable matter fully forty per cent. That of the wheat checks five yards square, depositing in afforded him all the opportunities for a dilapidated fortunes, made their melan- might restore the soil to its original crop, which succeeded, was still more, each check a large size heap of mould most liberal education; but he was a lit- choly way to the wilds of the West. productiveness, but no more. To make This success on a small area was follow- and litter, gathered with hilling hoes the erratic at the period, devoting him- Many a field which had descended from an improvement beyond this point, some ed by extensive applications of marl from piney old field, giving to each acre sometimes with great diligence to generation to generation of the same change must be made in its mineral each year; and each application testified 194 heaps—these heaps were regularly studies, and sometimes utterly ne- stock, for long years, and which had of- constituents. eting them. Yet he was always fond fered to successive heirs green pros- But at that period little was known in of the soil was neutralized, the acid pines two horse plough, running from 7 to 8 intellectual pursuits, and though his peets and rich harvests, now thinly clad this country of the science of agricul- disappeared, the land improved from inches deep, laid off and planted in corn t book may have lain unopened, he in broom-straw and the tiny hen grass, ture. The investigation of its chemis- year to year. The lime afforded food -from which I gathered in November,

eighteen, enlisted in a volunteer com- that time, extremely poor, the larger with lime, which converted the poisonny, and soon after entered on active part not averaging more than ten bush- ous substance into a manure. rice. He marched with the first re- els of corn per acre, nor more than six It occurred to Mr. Ruffin that the experienced in this section. The earth ment called out from Virginia in the bushels of wheat, on the better half of soils of his section might be like the spe- is completely locked up, and the prowe of Norfolk, and served as a private the land. Bordering it, on the river, cimen of Sir Joseph Banks. They gress of the plow, for the time being, less a constituent part of the soil. The and in liberally applying manures, as in Kom August, 1812, to Feb. 1813. He was a tide-marsh of 300 acres, covered were of "good apparent texture," and stopped; agriculturists, consequently, fertility of the land depends entirely Edgecombe. then returned home, and was permitted by water when the tide was up, but left they were sterile, and they always had will be backward, yet there are operaby his guardian to take possession of free when the tide was low. One of been so. Putrescent manure made no tions on the farm that can be forwarded his estate. In the division of his fath- the first of Mr. Ruffin's experiments was permanent improvement. Might not -such as hauling rails, collecting ma-'s land he had received, as his share, to reclaim this part of the marsh. He the same poisonous substance exist in terials for manufacturing manures, carhe farm called Coggin's Point, situated limited his efforts to about 32 acres, the them? He immediately applied a rying out marl, swamp mud, (previousthe County of Prince George, and on most favorably situated, as he believed, proper test, but it disclosed no sulphate ly heaped) and last, though not least, he waters of the James River, and now to ensure success. After five long years' of iron. This supposition, then, must mould from the forest. The forwarding elebrated throughout this state from exertions, he succeeded in draining this be abandoned. But might not some of these operations add to the improvehe extraordinary improvements made small section, and bringing it into good other substance, equally deleterious, ex- ment and fertility of our farms. I have here by Mr. Ruffin. He entered with culture. It produced three very large ist? Might there not be some acid? been engaged with hands and teams in industry and enthusiasm into the practi- crops of corn, then three others, less and He was induced to present this question hauling litter and mould (previously cal business of agriculture. Yet he did less in quantity, when the vegetable to himself, and to incline to believe the collected in heaps in the forest with not suffer this occupation to monopolize soil had so rotted away, that the level affirmative from several circumstances. hilling hoes,) on land intended for corn, his attention, for before the end of the of the land was now too low for cultiva- He says: tion, and it was abandoned to its former Agriculture in Virginia had then element. Such has been the fate of known to contain acid, as sheep sorrel er about one-half of my corn shift with

About the year 1813, Col. John Tayfirst settlement-a system which was lor, of Caroline, published his "Arator." truly a systematic destruction of the It was received with enthusiastic eclat. country-adopted in the first instance There was a general belief that he had vated crops. Second: That of all the barn yard and compost manures. by emigrants, in order to obtain the lar- discovered the great secret of improving soils supposed to be acid, which I ex- In regard to this mould and litter, I terly regardless of its ultimate effects, ers now rejoiced, as the tempest-tossed tained any carbonate of lime. Third: to pay Paul;" I answer, that I never and continued by their descendants, sailor on the first sight of land after a That the small proportion of my land, expect to cultivate this land—the remomost part, no longer paid the expenses remain in their old homesteads and re-calcareous, was entirely free from pine timber thereon, yet I defy any one in of cultivation. As a patient who has trieve their shattered fortunes. The and sorrel, and moreover was as remar- five years, on the examination of this

very little. Accordingly, like the in- of improvement recommended, and in any soil."

abracing a View of Agricultural his land, and who was prevented only had made barren a great portion of the ory. Progress in Virginia for the last by the impossibility of finding a pur-tide-water country, and her decree was He began operations in February, seeded, last year gave the return of 14 chaser, unless at half of the then very irreversable, with the present elements 1818, and applied between 125 and 200 for one seeded-His farm was marled The subject of this sketch was born low value. All wished to sell-none to of the soil. The virgin land, when first bushels from one of these beds per acre, ten or fifteen years ago, and was but muary 5, 1794, in the county of buy. If a stranger had been inclined stripped of the primeval forest, would to 21 acres of land. His anticipations slightly improved by the mark.—The mee George and state of Virginia. to settle among us, he might have cho- in many localities scarcely pay the ex- were sanguine, and he watched with application of mould and litter he comn youth and throughout life he has sen almost any farm in the county, and penses of cultivation. And yet this anxious interest the progress of the ex- menced some four or five years ago, and fered much from a feeble constitution would scarcely have failed to find the soil had received the dropping foliage periment. The mark, as it is commonly from that period his farm has rapidly delicate organization. But neither owner glad to sell, and at a low price." and the decaying timber from the time called contained 33 1-3 per cent of car- improved. B. Jones, Esq., near neigh-

as still occupied, and most frequently, was given up to the encroaching forest. try had just commenced in England by to the plants, medicine to the soil, and five barrels per acre, giving an increase In this state of things, the subject of Sir H. Davy, who had entered as a pio- gave permanence to the manures. The of two barrels per acre, and from said 20 As he read for amusement and not im- our sketch entered on his career as a neer the vestibule of the science, and retentive capacity which had been infer- acres I reaped 10 bushels of excellent rovement, fiction engaged much of his farmer. He was totally inexperienced, raised his torch to dispel the dense ed from the fact that the most fertile wheat, a good deal of which I disposed and had no knowledge, either theoreti- darkness which had thus far enveloped and durable soils known were highly of for seed, giving an increase of five was sent to William and Mary Col- cal or practical, of his business. But the whole subject. While Mr. Ruffin calcareous, was manifested by the marl- bushels per acre. Clover was seeded re. At first he applied himself with in this he differed but little from older was meditating on the last remedy for ed land, more and more clearly each with the wheat, but killed by the siduity, and advanced with great ra- men of this period in Virginia. He sterile lands,-removal to the West- succeeding year. Mother earth changed drought. The above applications of He was especially successful in gave himself up with enthusiasm to his he received a copy of "Davy's Agricul- her face and changed her constitution, mould and litter were all on land pregeometry, for which he manifested pursuit, labored most industriously, yet tural Chemistry," which had been just under the healing influences of this sal- viously marled. In the application I labored in the dark, and, of course, of published in this country. He read it utary medicament, and now presented am now making, no lime or marl has The first examination was passed by ten went astray; sometimes in pursuit with peculiar interest, though not ac- an appearance as different from her for- ever been applied.—The question with of one "ignis fatuus," and sometimes of quainted with chemistry. It was obvi- mer self, as the healthy and robust man me is, -will the benefit from such an But soon he relaxed in his studious another. He saw clearly that the pre- ous that, at least, the true philosophical from the lingering and hectic victim of application be equal on unlimed land to habits, and was finally suspended from vailing systems and practices of culture mode of examining questions of agricul- consumption. Verdant fields and abunt that derived from limed or marled soils? were wrong, and wandered from expe- ture had been reached. In the perusal dant harvests were the monuments of Mould is a general name for finely diriment to experiment to discover what of this author, there was one statement his discovery. Broom-straw (andropa- vided earthy substance that forms the was true. Often mistaken in views a- which appeared to afferd some hope. gon) and poverty grass (aristida gracil- surface-soil of land, in which all kinds dopted "a priori," he soon tested them As an illustration of the chemical de- is)gave place to luxuriant clover, and a of vegetables strike root and thrive; and by careful experiment and rigid induc- feets of land and their remedies, he ad- poor, thin and stunted vegetation dis- experiments go to prove, that plants do tion. Many investigations, thus pur- duces an example a a soil of good appa- appeared from the now smiling land- assimilate humus as direct nourishment. sued for a series of years by one whose rent texture which was sent him from scapes. determination of what should be his logical power equalled his industry, nat- Lincolnshire by Sir Joseph Banks, as ure career in life. But war had now urally and inevitably led to great re- remarkable for sterility. Upon analyzen declared with Great Britain, and sults. "Labor vincit omnia," says the ing it, he found it contained sulphate of iron, the copperas of the shops; and he The estate of Coggin's Point was, at offered the obvious remedy of top-dress-

fined to them, and grew there with lux- collected to accomplish this. The reuriance and vigor, proportioned to the maining half I propose to manure liberunfitness of the land for prodeing culti- ally broadcast, with stable, hog-pen,

undergone a long and rapid process of principal feature in his system was the kable for great and lasting fertility, as | land, to inform me, whether the mould | With such culture—such impoverish- throw the land into high beds, in culti- the previous properties of any acid placed speedily recover. I am further inform- ant village, I have seen something of the ment—and the prospect of a population vating the corn crop, by deep plough- in contact; and therefore, if acid were ed, that the cultivated soil is but little farming interest of Edgecombe, of which learned, that the inorganic elements of free from this bad quality, and by its others, that by the liberal use of said heavy crops of the last season, (a very "Almost every man was growing soils, the mineral ingredients, are often absence had been permitted to grow rich mould and litter, on land previouly mar- dry one) but much more so by the epoorer, or the prospects of his family deficient, and sometimes one or more are and continue productive. Still I could led or limed, that the crops the first conomy displayed in preparing grounds becoming worse. The grade of society exhausted by cultivation, sometimes not obtain no direct evidence of the pres- year can be doubled:-Col. Saml. Booth, not only for present, but also succeedhad been, and still continued to be, on furnished by nature to the virgin lands, ence of acid, either free or combined, of the county of Surry, (who is one of ing croops. The true secret of farmthe decline. The proprietors having no and that their vegetable growth will not by applying chemical tests to soils, nor your subscribers,) has brought his farm ing seems in this county to have been hope of the improvement of their lands, furnish them. He at once carried into was there any authority in my oracle, to a remarkable state of fertility, by the found out, that is, when a crop is taken or of being remunerated for ever so practice the new idea, and subjected Davy's 'Agricultural Chemistry,' nor application of marl, followed by an ap- off to leave the land in better condition great industry and devotion to their them to the test of experiment. For any other work which I had read, for plication of mould and litter, collected than it was before. As proof, let me

habitants of a city ravaged by the found them, as he states, "either profit- But without any authority from chem- marl, yet after the application of this counties. I plague, they thought more of present less, entirely useless, or absolutely, and istry, and in spite of his own failure to mould and litter, his crops have rapidly detect any such element in soils, by increased. A few years ago, (after the chased the plantation on which he now wants; and there prevailed generally, What then was to be done? He was means of the imperfect analyses which liberal use of murl,) his annual return habits of idleness and improvidence, of not the man to despair, save in a desper- he attempted, he felt a very strong con- of wheat was from four to six hundred th materials for the mechanic pleasure-seeking, and neglect of busi- ate case. But circumstances seemed fidence that such did exist, and that it bushels of good wheat. The mould and ness, with all their necessary consequen- singularly to concur in establishing the was the cause of the sterility ef the lands litter was applied to the corn crop, ces." The population fled from the belief that any permanent improvement and their incapacity for durable im- ploughed in deep-the corn crop, folcountry to seek a better fortune in the was hopeless. Putrescent manure, provement. Fortunately, the beds of lowed by wheat-His corn crops have distant West. He continues: "There when applied, disappeared in the course fossil shells which underlie nearly all also rapidly increased. Mr. J. Watkins was scarcely a proprietor in my neigh- of two or three years, and left not a the tide-water section of Virginia and of the same county, has doubled the borhood, and deriving his income from vestige behind. The country seemed the adjacent states, presented the mate- produce of his farm by this application cultivation, who did not desire to sell destined to sterility. Indeed, Nature rial at hand to test the truth of his the-his farm three years ago yielding

to the truth of his theory. The acidity spread, and the land ploghed with a

(Remainder in our next.)

Mould and Litter.

To the Editor of the American Farmer.

DEAR SIR:—We are, in truth, in the midst of one of the coldest seasons ever the mould is the manure of that soil." this year, which is deposited in heaps, "These were, first, that certain plants 5 by 6 yards. It is my purpose to cov-(the rumex acetorus) and pine, prefered this mould and litter, if the season will these soils, and indeed were almost con- admit of it, as I have nearly a sufficient

gest immediate profit, and who were ut- Virginia soils, and many anxious farm- amined by chemical tests, not one con- am informed that I am "robbing Peter to others of the same, or of a similar nawhen the same cause which had induced perilous voyage. Here was presented a and of all within the range of my obser- ving of the mould and litter, will, for it had ceased to exist, the land, for the cure for their misfortunes; they might vation, which was shelly, and of course the time being, check the growth of

business, thought it as well to bestow four or five years he used all the means supposing vegetable acid to be present from piney old fields—His land was state one instance, which I do, hoping greatly improved by the application of to excite a spirit of rivalry in other from 5 to 7 bushels of wheat for one

Dana in his Prize Essay, remarks:oxygen and hydrogen-or, if you like the terms better,-mould of soil consists of the water, coal and salts of the plants-mould is truly manure." "The soil is the earth on which plants grow-

ture," he remarks:-"Humus is more or fested in collecting material for making upon its presence, for, if we except water, it is to this substance alone in the soil that plants owe their nutriment." Humus is the product of living matter, was no uncommon day's work. I have and the source of it. It affords food fo but little knowledge of cotton raising, organization; without it nothing natural but understand that this would be concould have life-at least the most per- sidered great picking in the best southfeet animals could not exist; and, therefore, death and desiruction rre necessary and accessory to the reproduction of animal and vegetable life."

searches of Saussure, justly observes: - single acre. There is no Paystery in "that vegetable mould is vegetable mat- this large yield. It was the result of ters partly decomposed, but not com- heavy manuring, proper plowing, &c. pletely disorganized. It is a vast per- If one acre can be made to produce so avading plant-without organization, bundantly, why may not many? And while itself bears and nourishes other would it not be a matter of economy to plants, as a tree affords nutriment to all get twenty barre's per acre instead of its branches and shoots. This vegeta- going over 20 acres to get that quantible mould is composed of vegetable bod- ty. ies, and it may again be transformed in-

THOS. E. BLOUNT.

Sussex Co. Va. Jan. 24, 1852.

From the Goldsboro' Telegraph.

GREENVILLE, Feb. 27, 1852. Mr. Editor-Since I left your pleas-

Eight years since, Baker Staten pur-

Next suppose it took 240 days work at \$1 per day,

504,06

Now call the ashes worth 14 cents per bushel,

264,06 Nett gain,

The foregoing estimate for labor is quite too high, as this work may be lone in the winter season when the days are short, and little else can be done to advantage.

This plan of securing ashes has been successfully practiced by several gentlemen in Edgecombe, and has been found to pay well, as ashes contain all the fertilizing properties that are required by growing plants. And another important advantage is, they have no stages of "Mould contains a part of the carbon, decomposition to pass through, consequently are certain in their effects, and enter upon their office at once.

In the particular of ashes, I know not that Edgecombe has any competitor in this part of the State, if elsewhere .-Indeed, I know of no section of the In Thacrs "Arinciples. of Agricul- State where so much interest is mani-

I was told that a hand had picked six hundred and forty pounds of cotton per day, and that five hundred pounds ern cotton growing State.

Another gentleman told me he had raised 3127 pounds of seed cotton on a single acre, and 20 barrels, 2 bushels, 2 Voigt, in his supplement to the re- quarts and 1 pint of corn upon another

I have heard much of Edgecombe in Edgecombe, out much more out of her, and I fear you will never have a correct more carbon and nitrogen than the veg- idea of her improvements in Agriculture, until you witness them in person, for were I to write a whole instead of a half sheet, I should only have commen-A. SHERMAN.